	Application No.	Applicant(s)
Notice of Allowability	09/467,530	DANISH ET AL.
	Examiner	Art Unit
	Jaydi A. Aguirrechea	2834
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in t 85) or other appropriate commun RIGHTS. This application is su	this application. If not included nication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>Telephone intervie</u>	w 6/7/04	·
2.  The allowed claim(s) is/are 1,3,6,15,17,25 and 27-44.		
3. $\boxtimes$ The drawings filed on <u>30 May 2000</u> are accepted by the	Examiner.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents had</li> <li>2. ☐ Certified copies of the priority documents had</li> <li>3. ☐ Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ave been received. ave been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDOI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be sul INFORMAL PATENT APPLICATION (PTO-152) which g</li> </ol>	bmitted. Note the attached EXAN gives reason(s) why the oath or c	INER'S AMENDMENT or NOTICE OF declaration is deficient.
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") n</li> <li>(a) including changes required by the Notice of Draftsp</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examin Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFI each sheet. Replacement sheet(s) should be labeled as such in</li> </ol>	erson's Patent Drawing Review ( er's Amendment / Comment or in  R 1.84(c)) should be written on the	n the Office action of edrawings in the front (not the back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the department of the department of</li></ol>	POSIT OF BIOLOGICAL MATER IT FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Info	rmal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948	8) 6. ☐ Interview Sun Paper No./M	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SI Paper No./Mail Date</li> </ol>	B/08), 7. ⊠ Examiner's A	mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposi	<u></u>	tatement of Reasons for Allowance
of Biological Material	9.	

**EXAMINER'S AMENDMENT** 

1. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Thomas Helmoldt on 6/9/04.

The application has been amended as follows: Please replace claims 1, 6, 15 and 25 as

amended here and cancel claims 2, 5, 7 and 16.

1. (amended) In a motor/gear drive having a shaft with a worm gear carried thereon and a free tip

end portion with an outer diameter terminating in an end wall, and a housing having a bore

formed coaxial with respect to the shaft to be installed therein, the improvement comprising:

a plastic annular sleeve within the bore of the housing concentrically disposed to be

positionable about the outer diameter of the tip end portion of the shaft to be installed and to be

nominally spaced radially from the outer diameter of the tip end portion, and wherein the sleeve

is operable to supportingly engage the outer diameter of the tip end portion of the shaft only in

response to radial loads acting to deflect the shaft into contact with the annular sleeve; and

a discrete plastic thrust member within the bore of the housing disposed to be in coaxial

registry with the end wall of the shaft to be installed, and operable to be in engagement with the

end wall of the shaft to be installed to prevent axial movement of the shaft.

Application/Control Number: 09/467,530 Page 3

Art Unit: 2834

wherein the plastic thrust member is an injection molded thrust member formed in situ

within the bore of the housing; and

wherein the outer diameter of the tip end portion of the shaft to be installed is larger than

a diameter of the thrust member engageable with the end wall of the tip end portion of the shaft.

2. (cancelled)

5. (cancelled)

6. (amended) In a motor/gear drive having a shaft with a worm gear carried thereon and a free tip

end portion with an outer diameter terminating in an end wall, a housing having a bore formed

coaxial with respect to the shaft to be installed therein, the improvement comprising:

a plastic thrust member and a separate and distinct plastic annular sleeve formed within

the bore of the housing, the plastic thrust member disposed to be in coaxial registry with the end

wall of the shaft to be installed, and operable to be in engagement with the end wall of the shaft

to be installed to prevent axial movement of the shaft-;

wherein the plastic thrust member is an injection molded thrust member formed in situ

within the bore of the housing; and

wherein the outer diameter of the tip end portion of the shaft to be installed is larger than

the diameter of the thrust member engageable with the end wall of the tip end portion of the

shaft.

7. (cancelled)

15. (amended) The improvement of claim 15; further comprising: the thrust member being

injection molded after installation of the shaft, wherein a portion of the end wall of the shaft

Art Unit: 2834

defines at least a portion of a chamber to receive injected plastic forming the thrust member during injection molding.

16. (cancelled)

25. (amended) In a motor/gear drive housing for enclosing a shah supporting a worm gear for engagement with a pinion gear, the shaft having one end connectible to a prime mover and a free tip end portion with an outer diameter terminating in an end wall, the housing having an aperture formed coaxial with respect to the shaft to be installed therein, the improvement comprising: a discrete plastic injection molded annular sleeve and a discrete plastic injection molded thrust member formed in situ within the aperture of the housing, wherein the plastic annular sleeve is positionable to be coaxially sheathing the outer diameter of the free tip end portion of the shaft to be installed and to be nominally spaced radially from the outer diameter of the free tip end portion, the sleeve operable to supportingly engage the outer diameter of the free tip end portion of the shaft only in response to radial loads acting to deflect the shah into contact with the annular sleeve, and

wherein the plastic thrust member is positionable to be in coaxial registry with the end wall of the shaft, and operable to be engageable with the end wall of the shaft to prevent axial movement of the shaft-; and

wherein the outer diameter of the tip end portion of the shaft to be installed is larger than a diameter of the thrust member engageable with the end wall of the tip end portion of the shaft.

The following is an examiner's statement of reasons for allowance: The references of the 2. Prior Art of Record fail to teach or suggest either alone or in obvious combination the limitations as set forth in claims 1, 6, 17 and 25, and specifically comprising the limitation of the thrust member made of injection molded plastic and formed in situ and the outer diameter of the tip end portion of the shaft is larger than the diameter of the thrust member.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jaydi A. Aguirrechea whose telephone number is 571-272-2018. The examiner can normally be reached on M-Th 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-2 7-9197 (toll-free).

TRAN NOUYEN

JAA 6/9/04